

CLAIMS

1. A machine for inspecting a bottle comprising
 - 5 a conveyor for supporting a bottle at an inspection location, and
 - an inspection system for inspecting a bottle at the inspection location including
 - a camera having an imaging surface on one
 - 10 side of the bottle,
 - an L.E.D. matrix light source having a plurality of horizontal L.E.D. rows on the other side of the bottle directing light towards said camera, and
 - 15 a processor
 - for defining a vertical periodic intensity pattern having intensity peaks and valleys, for a vertical row of L.E.D.s and
 - for locating the L.E.D. of the
 - 20 vertical row that locates the top of a bottle to be inspected at a peak of the periodic intensity pattern.
2. A machine for inspecting a bottle according to
 - 25 claim 1, wherein the periodic intensity pattern is a triangulated pattern.